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Device for determining the amt. of somatic cells in milk - has light guide feeler to collect fluorescent radiation from illuminated somatic cells and uses converted radiation to fix number of somatic cells in milk

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Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
RU 2060499	C1	19960520	RU 9434571	A	19940930	G01N-033/04	199707 B

Priority Applications (No Type Date): RU 9434571 A 19940930

Patent Details:

Patent	Kind	Lan	Pg	Filing	Notes	Application	Patent
RU 2060499	C1		4				

Abstract (Basic): RU 2060499 C

Voltage from a power unit (12) is passed to light source (8) in the form of a light diode, mercury lamp or an arc lamp and its light is directed by a transmitting optical system (7) to the outlet end of a transmitting light guide (8) along which the light passes to a light guide feeler (3) and through its inclined outlet end (4) into the contact zone of the feeler immersed in a test milk sample (2) in a vessel (6). The light is absorbed by somatic cells and its intensity is proportional to the concn. of the cells.

Fluorescent light from somatic cells passes to the end of the light guide feeler and is directed into a receiving light guide (5), passing it through a receiving optical system (7) to a photo-detector (10), passing a signal to a registration unit (11) where it is processed and set in a form suitable for a user. The signal from the registration unit is passed to power unit and is used for stabilisation of the light flow of the light source.

USE - Used to analysis of milk in agriculture, milk laboratories and in veterinary practices.

ADVANTAGE - Device provides better measuring accuracy and reduced operating costs

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Derwent Class: B04; C07; D13; S03

International Patent Class (Main): G01N-033/04

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